



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,763	03/01/2004	Yiu-Keung Ng	SCTI-105	1906
21272	7590	03/07/2007		
MORLAND C FISCHER			EXAMINER	
2030 MAIN ST			CAO, CHUN	
SUITE 1050				
IRVINE, CA 92614			ART UNIT	PAPER NUMBER
			2115	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	03/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/789,763

Applicant(s)

NG ET AL.

Examiner

Chun Cao

Art Unit

2115

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 13-18 is/are rejected.
- 7) ☒ Claim(s) 6-12 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-18 are presented for examination.
2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The current title is imprecise.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 13-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 13 recites the limitation "the connection" in line 5. There is insufficient antecedent basis for the limitation in the claim.

Claims 14-18 are rejected because they incorporate the deficiencies of claim 13.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2115

6. Claims 1-5 and 13-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim (Kim), US patent no. 7,114,085.

As per claim 1, Kim discloses a data storage system interfaced with a host computer [fig. 1] and comprising:

a portable disk drive carrier [100, fig. 2] adapted for hot-plug operation and including a disk drive [120, fig. 2] mounted on said disk drive carrier and an external carrier connector [col. 4, lines 1-5]; and

a data storage system enclosure within which system power buses are housed [fig. 1], said data storage enclosure having a carrier mating connector to which the external carrier connector of said portable disk drive carrier is detachably coupled, whereby electrical power from the system power buses is supplied to the disk drive of said disk drive carrier to enable said disk drive to be accessed by said host computer [col. 3, lines 60-67; col. 4, lines 11-16],

said portable disk drive carrier also including power control circuitry located between the external carrier connector of said disk drive carrier and the disk drive mounted on said disk drive carrier to control the power supplied [fig. 2; col. 4, lines 30-41] thereto, said power control circuitry including a time delay [108, fig. 2] by which power is supplied from the power buses at said data storage system enclosure to the disk drive at said disk drive carrier a particular time [col. 5, lines 5-6] after the external carrier connector of said disk drive carrier is coupled to the carrier mating connector of said data storage system enclosure [col. 4, lines 41-57; col. 5, lines 3-12].

As per claim 2, Kim discloses that the portable disk drive carrier also includes an

Art Unit: 2115

internal disk drive mating connector and said disk drive includes a disk drive connector attached to said internal disk drive mating connector, whereby said disk drive is electrically interconnected with the external carrier connector of said disk drive carrier, the power control circuitry of said disk drive carrier being connected to said disk drive by way of the internal disk drive mating connector of said disk drive carrier and the disk drive connector of said disk drive [fig. 2; col. 4, lines 1-5].

As per claim 3, Kim discloses that the power control circuitry of said portable disk drive carrier has a timer by which to establish said time delay before power is supplied to the disk drive at said disk drive carrier from the power buses at said data storage system enclosure [fig. 2; col. 4, lines 31-35; col. 5, lines 4-6].

As per claim 4, Kim discloses that power control circuitry includes an electronic switch located between one of the power buses at said data storage system enclosure and the disk drive at said portable disk drive carrier, said timer generating an output signal after said time delay by which to close said electronic switch and thereby connect the one of said power buses to said disk drive to supply power thereto [figures 2, 6; col. 5, lines 42-55].

As per claim 5, Kim discloses that electronic switch of said power control circuitry is a field effect transistor, the output signal generated by said timer after said time delay enabling said field effect transistor and thereby connecting the one of said power buses to said disk drive [fig. 6, col. 5, lines 42-55].

As to claims 13-15 are contained the same limitations as set forth in claims 1 and 4 in combination or respectively.

Allowable Subject Matter

7. Claims 6-12 and 16-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chun Cao whose telephone number is 571-272-3664. The examiner can normally be reached on Monday-Friday from 7:30 am-4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C. Lee can be reached on 571-272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 2, 2007


**CHUN CAO
PRIMARY EXAMINER**